

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
25 August 2005 (25.08.2005)

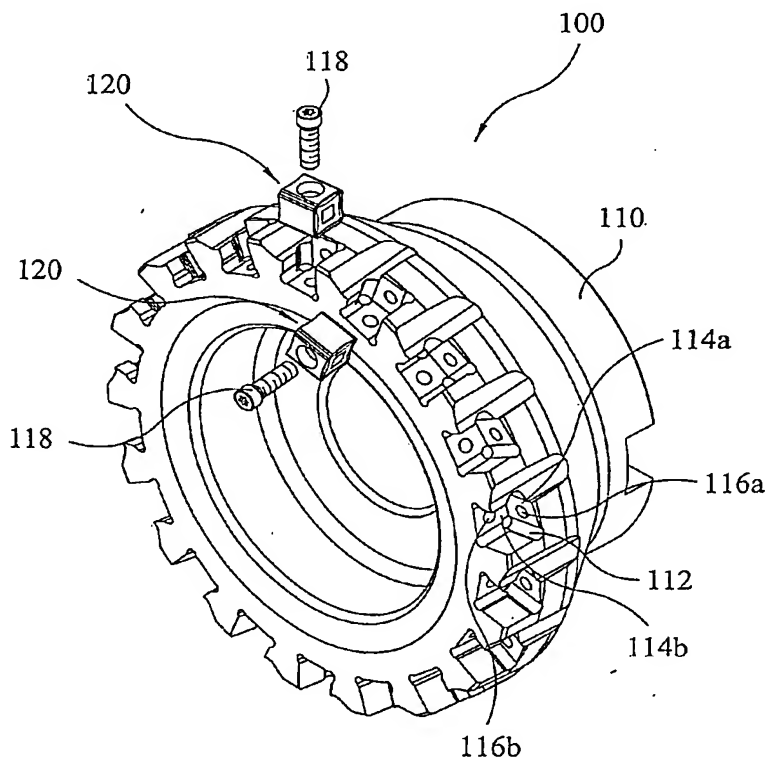
PCT

(10) International Publication Number
WO 2005/077580 A1

- (51) International Patent Classification⁷: **B23C 5/20**
- (21) International Application Number:
PCT/KR2004/003135
- (22) International Filing Date: 1 December 2004 (01.12.2004)
- (25) Filing Language: Korean
- (26) Publication Language: English
- (30) Priority Data:
10-2004-0010094 16 February 2004 (16.02.2004) KR
10-2004-0096727 24 November 2004 (24.11.2004) KR
- (71) Applicant (for all designated States except US): **KOR-LOY, INC** [KR/KR]; 1606-2, Seocho1-Dong, Seocho-Gu, Seoul 137-877 (KR).
- (72) Inventors; and
(75) Inventors/Applicants (for US only): **JANG, Byeong-Han** [KR/KR]; 205-1003, Gaesinjukong Apt., Gaesin-Dong, Heungdeok-Gu, Cheongju-City, Chungcheongbuk-Do, 361-805 (KR). **KIM, Kee-Hun** [KR/KR]; 1609-8, Bongcheon7-Dong, Gwanak-Gu, Seoul, 151-057 (KR). **JI, Dong-Ryoung** [KR/KR]; 102-1102, Doojinbakro Apt., Sugok2-Dong, Heungdeok-Gu, Cheongju-City, Chungcheongbuk-Do 361-792 (KR). **CHO, Moon-Sung** [KR/KR]; 205, Myungil2-Dong, Gangdong-Gu, Seoul 134-072 (KR). **KIM, Hak-Kyu** [KR/KR]; 106-1303, Samil Apt., Bokdae-Dong, Heungdeok-Gu, Cheongju-City, Chungcheongbuk-Do 361-270 (KR).
- (74) Agent: **YOON, Eui-Sang**; 2F, S & M Business Support Center, 1508-1 Kakyung-Dong, Heungdeok-Gu, Cheongju-City, Chungcheongbuk-Do 361-802 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

[Continued on next page]

(54) Title: MILLING CUTTER



(57) Abstract: The object of this invention is to provide a milling cutter which includes a cutting insert (120), which has a hexahedral shape and is provided with first and second cutting blade parts on opposite ends thereof, and a cutter body (110) provided with a plurality of insert seats (112) which the cutting insert (120) is seated in and fastened to in either of two directions. The cutting insert (120) is fastened to the associated insert seat (112) in a selected direction, thus all corner blades or main, blades, provided on the first and second cutting blade parts of the cutting insert, can be used for machining workpieces. Therefore, the present invention extends the lifetime of the cutting insert (120).



AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.